T+A

USER MANUAL

K8

Software Version V 2.6

Bestell Nummer / Order No. 9103-0433 UK

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About these instructions

These **'Operating Instructions'** describe all the controls and functions of the **K8** which are used frequently.

The section entitled **'Installation'** describes all those controls and settings which are not often required, and are generally only needed when you are setting up and using the system for the first time. This section also contains the network settings for the **K8** which are required when you first use the system.

Symbols used in these instructions

Caution!

Text passages marked with this symbol contain important information which must be observed if the machine is to operate safely and without problems.

This symbol marks text passages which provide supplementary notes and background information; they are intended to help the user understand how to get the best out of the machine.

Welcome.

We are delighted that you have decided to purchase a **T+A** product. With your new **K8** you have acquired a top-quality piece of equipment which caters for the latest developments in the field of high-resolution HD surround sound and HD video formats, without neglecting the requirements of the audiophile music lover.

This system represents our very best efforts at designing practical electronic equipment incorporating solid quality, user-friendly operation and a specification and performance which leaves nothing to be desired.

All these factors contribute to a piece of equipment which will satisfy your highest demands and your most searching requirements for a period of many years. All the components we use meet the German and European safety norms and standards which are currently valid. All the materials we use are subject to painstaking quality monitoring.

Our robust all-metal cases exclude any possibility of external sources of interference affecting the quality of reproduction. From the opposite point of view our products' electro-magnetic radiation (electro-smog) is reduced to an absolute minimum by the outstandingly effective screening provided by the metal case.

All sub-assemblies and mains sections are designed to be extremely efficient. A European EUP directive will come into force in future, relating to energy efficiency and the avoidance of greenhouse gases which are harmful to the climate; the directive's requirements will be very stringent, but our equipment satisfies them in full even today.

Our range of accessories includes high-quality cables and connectors.

We would like to take this opportunity to thank you for the faith you have shown in our company by purchasing this product, and wish you many hours of enjoyment and sheer listening pleasure with your **K8**.

T+A elektroakustik GmbH & Co KG

IMPORTANT! CAUTION!

This device contains a laser diode classed as higher than 1. To ensure constant safe operation, it is essential not to remove any covers, nor to attempt to access the interior of the machine in any way.

All maintenance work should be entrusted to qualified Customer Service staff.

The following warning labels are attached to the device:

On the back panel of the case

CLASS 1
LASER PRODUCT

On the internal shielding cover of the disc mechanism

CAUTION:	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM
VORSICHT:	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN
ATTENTION:	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU
DANGER:	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM

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"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

All the components we use meet the European safety norms and standards which are currently valid. The operation instructions, the connection guidance and the safety notes are for your own good - please read them carefully and observe them at all times.

This product complies with the Low Voltage Directive (73/23/EEC), EMV Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

About these instructions

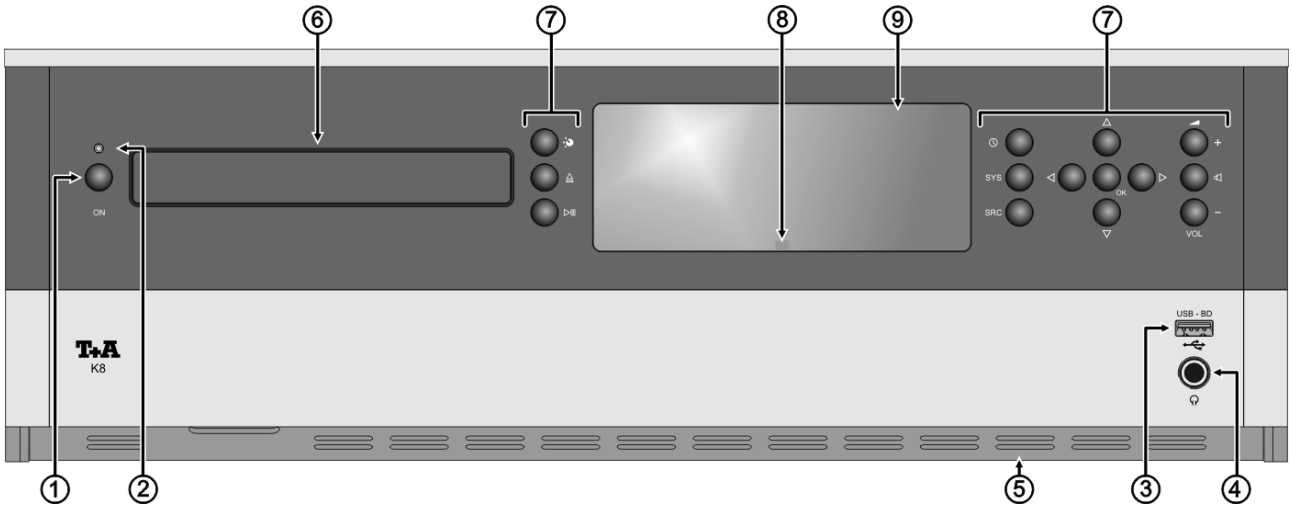
The **K8** amplifier with its seven output stages is extremely versatile: if all the output stages are not required for the surround system in the main room, they can be used to provide sound in up to three additional rooms or listening zones in the main room. It is possible to adjust the volume separately in the adjacent rooms or listening zones, or in parallel with the main room.

All the controls and functions of the **K8** which are frequently used are described in the first section of these operating instructions.

The second part - **'Basic settings, Installation, Using the system for the first time'** covers connections and settings which are very seldom required; they are generally required only when the machine is set up and used for the first time. Here you will also find a detailed description of the network settings required for connecting the **K8** to your home network.

For newcomers to networks we have prepared explanations of some of the important terms used in this technology and other background information in the Chapter **'Network Terminology'**.

K8 Multi Source System



Controls

All the important functions of the **K8** can be operated using the buttons on the front panel. Direct operating buttons are available for the basic functions, such as source / track selection, whereas rarely needed functions are controlled using menus, which are called up using the SRC / SYS / ⏲ buttons.

All information regarding the state of the machine, the current track and the selected station are displayed on the screen; the main items are displayed in highlighted form in a context-sensitive manner, and are clearly legible from some distance. The following section describes in detail the function of the front panel buttons and the information displayed on the screen.

On / Off switch

① ON

(On and Off switch)
A brief press on the ON button switches the machine on and off.

⚠ **Caution!**
The mains button is not a mains isolation switch. Even when the screen and the ON LED are switched off, parts of the machine are connected to mains voltage.
If you know the machine will not be used for a protracted period, disconnect it from the mains supply by withdrawing the mains plug from the socket.

For information on energy consumption please refer to the Chapter entitled **'Notes on Energy Saving'**.

② **Status LED**

The LED above the ON button indicates the operational state of the **K8**.

LED	State
off	**Energy Saver switched on** The machine is switched off; minimal current drain
red	**Energy Saver switched off** The machine is switched off; expanded stand-by function with slightly higher current drain
blue	**Machine switched on -** the **K8** is fully ready for use.

ⓘ ***ECO standby*** is the K8's basic, default setting. If you wish to use the expanded functions of Comfort stand-by, you must switch that function on in the 'System settings / Standby mode' menu.

For a fuller explanation of the different stand-by modes, the exact range of functions and the stand-by current drain please refer to the Chapters "System settings / Standby mode" and "Economical use of energy", and the Specification in the Appendix.

Front panel sockets

③ USB BD

USB 2.0 socket for USB memory sticks, as storage medium for *BD-Live* functions, and playing back **audio and video files.**

This USB socket can be used to play DivX, WMA, JPEG or MP3 files. The method of operation is described in the Chapter **'Operating the disc player (media player)'**.

The USB storage medium can draw power from the USB socket, provided that the device's current drain is within the USB norm (< 500 mA). Hard disks with a current drain of >500 mA can also be connected, provided that they are powered by their own mains PSU.

To use BD-Live you must connect a memory stick with a capacity of at least 1 GB to the USB socket.

The memory medium must be formatted using the FAT16 or FAT32 file system.

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④ 🎧
(Phones / headphone)

Socket for stereo headphones with an impedance of at least 50 Ω.

When headphones are plugged in, the loudspeakers connected to the **K8** in the main room are automatically switched off.

When headphones are in use, the (MODE)- button (menu loudspeaker and headphone modes) can be pressed to switch on the Dolby headphone function, which provides spatial surround reproduction via headphones.

The use of headphones
Continuous listening to programme material via earphones or headphones at very high volume can result in permanent hearing loss. You can avoid damaging your health by not listening via headphones or earphones at high levels for long periods.

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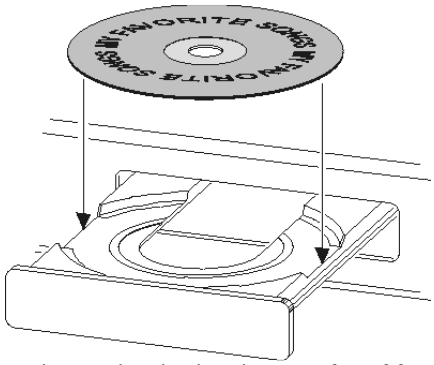
⑤ Mic
(on underside)

Microphone socket (barrel socket)

⑥ Disc drawer

A long press on the (▲) front panel button opens and closes the disc drawer.

Alternatively the drawer can be opened with a long press on the (■)- button on the remote control handset, and closed using the (I▶)- button on the handset.



Place the disc in the depression in the drawer; **the side to be played must face down**.

If the drawer should jam, it is possible to open it manually. For more information please refer to the Chapter entitled 'Trouble Shooting'.

Operating button ⑦

Source selection

A brief press on this button selects the desired listening source. Press the button repeatedly until the listening source of your choice is displayed.

The signal from the selected source can now be played through the loudspeakers. It is also available at the **LINE-OUT** output sockets for recording purposes.

To make the selection process easier, you can remove sources from the Select list which are not present in your system; see the Chapter entitled “System configuration menu / Source names”.

Disc mechanism functions

STOP / OPEN

Button for stopping the disc, and opening and closing the disc drawer.

Brief press: stop
Long press: opens the disc drawer immediately

PLAY / PAUSE

Starts playback

Halts running playback (pause)

Resumes playback after a pause

◀	Long press during playback:	Rewind / Station search
▶	Long press during playback:	Fast forward / Station search
▲	During playback:	Next track / Station
▼	During playback:	Previous track / Station

Menu functions

SRC
Source menu

brief press: opens the menu for the selected source (Disk track menu, Tuner menu, etc.)

Long press: opens the Setup menu for the source device just selected:

Source	Setup menu	
Streaming Client:	Network setup	(see Chapter ‘**Network configuration**’)

SYS
System menu

Brief press: opens the ‘**System configuration**’ **menu**
(for details see Chapter ‘**System settings**’)

Timer menu

Brief press: opens the alarm timer menu (see Chapter ‘**Alarm timer**’)

◀	Brief press:	Back to previous point / Change button
▶	Brief press:	Confirms input / Change button
▼	Brief press:	Selects the next point within a list / Select button
▲	Brief press:	Selects the previous point within a list / Select button

OK

Confirmation / Select button in menus and lists
Brief press selects the highlighted menu point / list point

Loudspeaker / Volume

Switches the loudspeaker output on and off (Muting)

If other listening zones are linked to the main room (volume control set to “LINKED” in the **'System configuration menu** / **Loudspeaker configuration** / **Loudspeaker'** menu), these zones are switched on and off together with the loudspeakers in the main room.

VOL + / VOL -

Increases / reduces volume level

Display elements / Remote control receiver

⑧ Remote control receiver

(behind the Perspex screen)

When operating the **FM100** remote control system, please point the handset towards the receiver.

There must be no obstacle which blocks the line of sight between the **FM100** and the remote control receiver in the **K8**. The function of the remote control system can also be adversely affected if the **K8** is set up behind glass cabinet doors.

Certain types of lamp, including fluorescent and energy-saving bulbs, cause interference to the remote control system. It is essential to avoid such light falling directly on the receiver, otherwise the effective range of the system may be markedly reduced.

If there is no direct line-of-sight connection between the remote control handset and the **K8** (e.g. machine installed in a cabinet), an alternative is to use an E2000 external remote control receiver, which is connected to the socket marked 'E2000 MAIN' on the back panel. The receiver can be set up in any position within the range of effect of the remote control handset.

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⑨ Screen

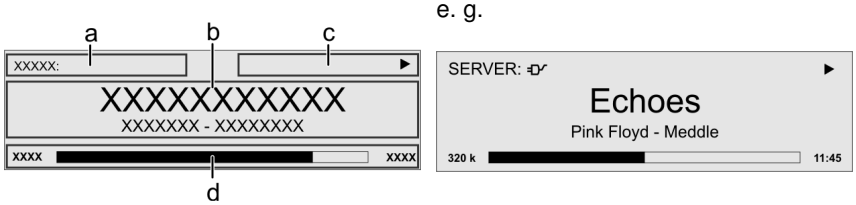
All the information regarding the machine's status, the current music track and list navigation is displayed on the graphic screen of the **K8**. The display is context-sensitive, and its content may vary according to the capabilities and facilities of the service or medium currently selected.

The essential information is highlighted on the screen in context-sensitive form. Additional information is shown above and below the main data in the form of symbols. The table below lists and explains the symbols employed.

The screen's brightness can be reduced to suit your personal preference and requirements (see the Chapter entitled '**System settings (System configuration menu)**'.

In Standby mode the screen can display the time of day (see Chapter '**Alarm timer, Alarm timer menu, Screen brightness menu (Stdby)**'.

e. g.



The displays and symbols which appear on the screen vary according to the currently active function (SCL, Disc, etc.) and the type of music currently being played.

The basic areas of the screen:

- Display field (a) shows the currently active source.
- Display field (b) shows information relating to the piece of music being played. The essential information is displayed enlarged in the main line.
- Display field (c) shows information relating to the device and playback.
- The bottom line (d) displays supplementary context-sensitive information (e.g. bitrate, elapsed time, state of reception)

The **K8** provides different screen displays for the Streaming Client and the radio.

- **Large-format display:**
  Enlarged display of the most important information, clearly legible even from a distance
- **Detail display:**
  Small-text display showing a large number of additional information points, e.g. bit-rate etc.

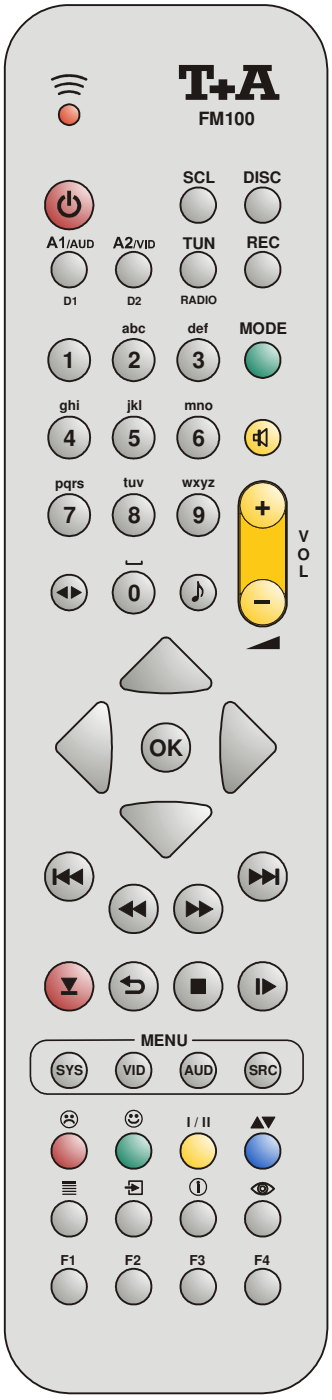
A long press on the (ⓘ) button on the remote control handset is used to switch between the display modes.

Screen symbols and their meaning

	Making connection (Wait / Busy) The rotating symbol indicates that the **K8** is either processing a command or making the connection to a service. These processes may take some time, depending on the speed of the network and the load on it. During such periods the **K8** may be muted, and may not respond to commands. If this should occur, please wait until the symbol disappears again.
	Indicates a **playable music track** or a **playlist.**
	Indicates a **folder**, which contains further folders or lists.
	Indicates that a source is being played through a **cable connection**.
	Indicates that a source is being played through a **radio connection**.
▶	Indicates that the **K8** is playing a station or a music track
⏸	Indicates a pause
128 k	Buffer display (fullness / memory indicator) and data rate indicator (where available): the higher the data rate, the higher the playback quality.
1:20	Elapsed playback time indicator. This display is not available for all services.
←	Indicates that the ◀ button can be used to shift to a higher menu level or Select level.
0 / **0**	Position indicator in Select lists: the first number states the current position in the list, the second number the total number of list entries (length of list).
↵	Indicates that the selected menu point or list point can be activated by pressing the ▶ button.
ABC or **123** or **abc**	Character input mode indicator
Z2	Lights up when Zone 2 is active (not possible with 7.1 system in the main room)
Z3	Lights up when Zone 3 is active (not possible with 7.1 or 5.1 system in the main room)
Z4	Lights up when Zone 4 is active
	Repeat function active, Streaming Client and iPod only
	Shuffle function active (random playback) , Streaming Client and iPod only
●	This LED lights up when the Dolby volume function is switched on
	The alarm timer is active, the **K8** will switch itself on at the set time.
dts	Playback of a dts audio programme
DD	Playback of a Dolby audio programme
HD	Playback of a high-definition (HD) audio programme
	Headphone mode (loudspeakers switched off)
F	Front speakers switched on
C	Centre speaker switched on
S	Surround speakers switched on
B	Rear speakers (Back) switched on
SW	Sub-woofer switched on

If there is no audible signal on one or more loudspeaker channels, even though these speakers are switched on, the reason may be that these channels are not present on the recording being played.

Remote control



Introduction

In general terms the function of the buttons on the remote control handset is the same as the corresponding buttons on the machine's front panel.

The Infra-Red sensor for the remote control system is located within the screen area of the **K8**. There must be unobstructed line of sight between the **FM100** and the machine's integral screen.

The following tables show the remote control buttons and their function when operating the machine.

⏻ (red)	Switches the device on and off
	Direct source select buttons
SCL	Brief press: selects the **K8**'s Streaming Client function (Internet radio, access to music server, USB-Audio, digital USB Audio iPod Anschluss) Long press: selects the iPod as source device
DISC	Selects the **K8**'s disc player as source device (including USB AV socket on the front panel)
A1 / AUD D1	A brief press switches between the audio inputs of the **K8**
A2 / VID D2	A brief press switches between the video inputs (AV inputs) of the **K8**
TUN RADIO	Brief press: radio function of the **K8**
1 2 **abc** … 9 **xyz** 0 ␣	Direct alpha-numeric input, e.g. track number, quick station select, radio station Special characters are also assigned to the 0 and 1 buttons. During the text input process it is possible to switch between numerical and alpha-numeric input, and between capital and lower-case letters, using the ▲▼ button.
MODE (green)	Switches between loudspeaker and headphone mode (STEREO, Pro Logic, Dolby Headphone etc.)
(yellow)	Switches the loudspeakers on and off (MUTING)
- + (yellow)	Reduces / increases volume (volume control rocker)
♪	Tone settings A brief press opens the menu for altering the tone settings: Balance / Subwoofer / Treble / Bass / Loudness / Dynamics / LipSync etc. The menu points are called up using the ▲ / ▼ buttons, and can then be altered using the ◀ / ▶ buttons. For a more detailed explanation please refer to the chapter entitled 'Tone settings (TONE menu)'.
◀▶	A brief press switches between the video formats (4:3, 16:9 etc.) For a more detailed explanation please refer to the Chapter entitled **'Picture settings menu (Video settings)** / **Aspect ratio'** menu'.

To control the K8 more comfortable, the optionally **T+A** radio remote control FD 100 is available. (The FD 100 works only with an installed Gateway Module.)

	Radio	Streaming Client	Disc-Player	iPod
	Navigation buttons			
◀	Back to the previous point	Back to the previous point During alpha-numeric character input the ◀ button can be used to erase a character.	Cursor movement left	Back to the previous point
▶	Confirms the input	- Opens a folder - Starts a piece of music - Selects an Internet station	Cursor movement right	Confirms the input
▲	Navigates to the previous point within a list	Navigates to the previous point within a list	Cursor movement up	Navigates to the previous point within a list
▼	Navigates to the next point within a list	Navigates to the next point within a list	Cursor movement down	Navigates to the next point within a list
OK	Confirmation button during input procedures			
	Disc mechanism control			
⏮		Selects the previous piece in the playlist	Selects the previous track during playback	Selects the previous piece in the playlist
◀◀ ▶▶	Brief press: manual fine-tuning Long press: Search	Rewind / fast forward to search for a particular passage.	Rewind / fast forward to search for a particular passage. Repeatedly pressing this button varies the search speed. The search is terminated by pressing the ⏯ button.	Rewind / fast forward to search for a particular passage
⏭		Selects the next piece in the playlist	Selects the next track during playback	Selects the next piece in the playlist
⮌ (REPEAT)		Repeat function (see the chapter **'Operating the Streaming Client'**)	Repeat function (see the chapter **'Operating the disc player'**)	Repeat function (see the chapter **'Operating the iPod'**)
■ (STOP)		Terminates playback	Brief press: halts playback Long press: opens and closes the CD drawer in STOP mode	Terminates playback and unloads the playlist
⏯ (PLAY/ PAUSE)	Play selected station from the Favourites list	- Starts playback (**Play** function) - During playback: halts playback (**Pause**) or resumes playback	- Starts playback (**Play** function) - During playback: halts playback (**Pause**) or resumes playback	- Starts playback (**Play** function) - During playback: halts playback (**Pause**) or resumes playback

	Radio	Streaming Client	Disc-Player	iPod
	Menu functions			
SYS	Opens the **System configuration** menu (e.g. for adjusting screen brightness)			
SRC	Opens the Favourites managment menu if the Favourites list is currently displayed	Brief press: switches to the main (Home) menu Long press: opens the Network Configuration menu	Brief press: opens the Disc menu	
	Special functions			
☹ (red)	Long press: Removes a favourite from a station list	Long press: Removes a favourite from the Favourites list created on the **K8**	Red button in menus	
☺ (green)	Adds a favourite to the Station list	Adds a favourite to the Favourites list created on the **K8**	Green button in menus	
I/II (yellow)	Button for switching between **Stereo reception** (display ⚮) and **Mono reception** (display ●)	Change-over switch between the USB inputs	Yellow button in menus	
▲▼ (blue)		During character input: Repeated presses switch between numerical and alpha-numeric input, and between capital and lower-case letters In lists: Search function (alpha search)	Blue button in menus	
≣	Displays the Favourites list	Displays the Favourites list created on the **K8**	BD/DVD only During playback: selects the sub-title language and / or switches sub-titles on and off.	
⮆	Memory button for quick station select	Memory button for quick station select	BD/DVD only: Switches between soundtracks present on the disc	
ⓘ	Long press: Switches between different screen displays	Brief press: Toggle switch between display of current music track and list navigation Long press: Switches between different screen displays	Superimposed information	
👁	Switches the Radiotext function on and off		DVD only, if the angle symbol is displayed: switches between different camera angles	
F1			Selects the audio track	Shuffle function (see chapter **'Operating the iPod'**)

Basic functions of the K8

This chapter describes the basic functions of the **K8**, which are always available, regardless of the currently selected source.

Source switching

FM100 **K8**

The desired source is selected by pressing the source button on the front panel, repeatedly if necessary.

The source buttons on the FM100 remote control handset can be used to select the desired listening source directly. The buttons are assigned as follows:

SCL — Streaming Client (incl. digital USB Audio iPod connection)

DISC — Disc Player

TUN / RADIO — Radio

A1 / AUD — A brief press cycles through the audio sources AUDIO 1 (IN 1), AUDIO 2 (IN 2), AUDIO 3 (IN 3) and iPod (analogue iPod connection with AV function).

A2 / VID — A brief press cycles through the video sources TV, HDMI1, HDMI2, HDMI3, AV IN1, AV IN2, AV IN3 and AV IN4.

ⓘ Inputs to which no source device is connected can be disabled in the “System configuration menu / Source names” menu. These sources will then be skipped when you cycle through using the A1 / AUD and A2 / VID buttons.

ⓘ To make them easier to identify, a plain text name can be assigned to the external source devices TV AUDIO 1 (IN 1), AUDIO 2 (IN 2), AUDIO 3 (IN 3), AV_IN1 ... AV_IN4, HDMI1 ... HDMI3 in the “System configuration menu / Source names” menu.

ⓘ Internal sources, iPods connected to the **K8** and source devices connected via the **T+A E** LINK system, can be controlled using the FM100 remote control handset or the front panel buttons, provided that they are selected as the current listening source. For details on operating the **K8**’s integral source devices please refer to the following chapters.

ⓘ The audio signal from the selected source is available at the LINE-OUT sockets for purposes such as recording using an audio recorder.

Volume control

FM100 **K8**

- **+** VOL + / VOL -

The volume of the **K8** can be adjusted in fine increments using the VOL + / VOL - buttons on the machine’s front panel, or **-** **+** rocker on the remote control handset. A brief press of one of the volume buttons increases or reduces the volume level by one increment. Holding one of the volume buttons pressed in changes the volume level continuously.

ⓘ The VOL + VOL - buttons on the K8 always control the volume in the main room.

The volume in adjacent rooms can be adjusted remotely using E2000 infra-red receivers installed in those areas.

Tone control settings
(Tone menu)

FM100 **K8**

SYS /
Tone settings

♪

The **K8** features a range of facilities for fine-tuning the sound to suit your personal preference, the listening environment and the particular recording currently being played. All the tone control settings are grouped in the TONE menu.

A brief press on the button calls up the tone control menu as a “Pop-Up”, whereas a long press calls up the on-screen display on a screen connected to the system.

The tone control menu can be called up either using the ♪ buttons on the remote control handset, or on the machine itself using the Tone (tone control settings) menu point in the SYS menu.

	Adjustment facility				
Balance L/R	xx L	...	centered	...	xx R
Balance F/B	xx F	...	centered	...	xx B
Subwoofer	-20	...	0	...	+10
Tone Control	Off	On			
Bass	- 12	...	0	...	+ 12
Treble	- 12	...	0	...	+ 12
Loudness	Aus	Ein			
Dynamics	Night	Medium	Full		
Lip Sync	xx ms				
Dolby Volume	Off	On			
DV Leveler	Off	High	Medium	Low	
DV Half Mode	Off	On			
Mode	Stereo	Disco	Surround	Surrnd PL IIx	Surrnd Neo:6
PL IIx Mode	Movie	Music	Matrix		
Neo:6 Mode	Cinema	Music			
Dolby HP	Off	On			
Zone-2 Offset	- 60	...	0	...	+ 60
Zone-3 Offset	- 60	...	0	...	+ 60
Zone-4 Offset	- 60	...	0	...	+ 60

Balance L/R

This menu point is used to alter the balance in level between the left and right loudspeakers. The setting affects the front, surround and rear speakers.

Balance F/B

This menu point is used to alter the balance in level between the front and rear loudspeakers.

ⓘ The balance can be adjusted in increments of 1 dB; the screen always displays the current value.
The primary purpose of the Balance setting in the Tone menu is to compensate for inadequacies in the audio mix of the recording currently being played. For the basic calibration of your loudspeakers you should adjust the settings in the “Loudspeaker / Level” menu.

Subwoofer level

Adjusting the volume of the sub-woofer.

ⓘ In our experience the mix of the LFE channel (Low-Frequency Effects) can vary widely from recording to recording. This menu point provides a quick means of adjusting the sub-woofer volume to suit the recording being played.

Tone Control

This menu point can be used to disable (by-pass) the K8’s tone controls.

To switch off the tone controls, select the “OFF” setting. When the tone controls are switched off, any adjustments you make to the following menu points “BASS” and “TREBLE” have no effect.

Bass / **Treble** (tone settings)

These two menu points can be used to alter the high-frequency (treble) and low-frequency (bass) settings when required.

The primary purpose of the settings in the Tone menu is to compensate for inadequacies in the audio mix of the recording currently being played.

If you wish to alter the fundamental tone settings for your loudspeakers, you should make adjustments in the “Loudspeaker / Tone” menu.

Loudness

The **K8** is equipped with an automatic level-dependent volume control system (**LOUDNESS**), designed to compensate for the frequency-dependent sensitivity of the ear at very low volume, caused by the physiology of the human auditory system.

This set-up option switches the level-dependent volume control on and off.

Dynamics

This menu point can be used to limit the dynamic range of audio reproduction, i.e. to reduce the difference in volume between very quiet and very loud passages.

Set-up options:

Nightmode	Greatly reduced audio dynamic range. Quiet passages are amplified significantly, loud passages are considerably quieter. This setting is particularly suitable for listening at low volume, e.g. when neighbours must not be disturbed.
Normal (Medium)	Quiet passages are amplified slightly, whereas extreme volume peaks are reduced. This setting is ideal for normal listening at room volume.
Full	Full dynamic range, without compression. Since quiet passages are not lifted at this setting, it is important not to select too low a listening volume, otherwise very quiet passages may not be properly audible. There is no automatic reduction in the volume of loud effects, i.e. very high maximum volume may be obtained at this setting.

If the Dolby Volume function is activated (see next page), this menu item is not available because the dynamic range is set automatically in this case.

Lip-Sync (sound delay)

Some video monitors - especially 100 Hz types, plasma screens and progressive-scan monitors - generate the picture with a slight delay. In such cases this may result in loss of synchronisation between sound and picture. Since various source devices feature different picture transmission processes (analogue, progressive, SDI, HDMI), the sound delay may also be caused by the source device.

The Sound Delay menu point can be used to set a delay in sound reproduction in the range 0 ... 500 ms, with the aim of synchronising sound and picture perfectly (“lip-syncing”).

Dolby Volume

Dolby Volume is a new type of process which maintains an impression of constant volume regardless of the source selected and the current programme material. Dolby Volume eliminates the major fluctuations in volume level which can occur when, for example, advertisements appear on the TV.

Dolby Volume also automatically matches the reproduced frequency response to suit the sensitivity of the human auditory system at low volumes.

The overall result is improved naturalness and comprehensibility when listening at low volume, below the original volume.

Leveler: The Leveler setting determines the extent to which the Dolby Volume function compensates for volume differences.

- **Off** The Dolby-Volume function is switched off
- **High** The function almost completely compensates for volume differences
- **Medium** The function compensates about half-way for major jumps in volume
- **Low** Differences in volume are reduced slightly

Half Mode: The "Half-Mode" setting affects the range of effect of the automatic frequency response adjustment.

- **Off** The frequency response adjustment affects the full range of volume.
- **On** The frequency response adjustment only takes effect at low volume.

The K8 remembers this setting for each source separately.

Mode (SRND Processing) (loudspeaker playback)

At this point, the main room loudspeakers can be switched between the following modes of operation:

Stereo: Stereo sound, via the two main loudspeakers only (left / right). Ideal for playing stereophonic music recordings without a screen display.

Disco: This sound field is particularly suitable for providing an even spread of sound over a dance area. The sound signal is reproduced with equal power by the main and surround loudspeakers, without echo or delay.

Surround: The decoder detects an encoded **digital** multi-channel signal, decodes it and passes it to all the output channels. The front panel screen displays the current decoder mode. If the signal is **analogue**, the decoder always uses Dolby Pro Logic IIx decoding.

PL IIx: The Dolby Pro Logic process is used to generate surround information from the two-channel music signal, so that the music is reproduced through all the loudspeakers of the surround system. Particularly recommended when playing programme material encoded with Dolby Pro Logic.

IN PL II. mode the following choices are available:

- **Cinema** for movies
- **Music** for music videos and concert.
- **Matrix** for mono programme material

NEO:6 A process for generating surround information from the two-channel audio signal, in a similar manner to Dolby Pro Logic. This provides spatial reproduction via all the surround system's channels.

In NEO:6 mode the following choices are available::

- **Cinema** for movies
- **Music** for music videos and concerts

The SRND Processing setting only affects reproduction through loudspeakers. For headphone operation the "Headphone Processing" setting is available.

Dolby HP / Headphone Processing (for use with headphones)

Dolby Headphone is a system which provides a form of spatial sound image even with conventional stereo headphones.

Off Headphone reproduction in STEREO

On Headphone reproduction in Dolby HEADPHONE

Volume Offs. Zone 2

This menu point only appears if listening zone 2 is switched on, and the "Linked" volume mode is selected (see Chapter **'System configuration menu / Loudspeakerconfiguration / Loudspeaker'**).

At this menu point you can set a fixed difference in volume between the speakers in the main room and those in zone 2. When you adjust the volume, the speakers in zone 2 follow the volume in the main room, but with the difference (offset) you have selected.

Volume Offs. Zone 3

This menu point only appears if listening zone 3 is switched on, and the "Linked" volume mode is selected (see Chapter **'System configuration menu / Loudspeakerconfiguration / Loudspeaker'**).

At this menu point you can set a fixed difference in volume between the speakers in the main room and those in zone 3. When you adjust the volume, the speakers in zone 3 follow the volume in the main room, but with the difference (offset) you have selected.

Volume Offs. Zone 4

This menu point only appears if listening zone 4 is switched on, and the "Linked" volume mode is selected (see Chapter **'System configuration menu / Loudspeakerconfiguration / Loudspeaker'**).

At this menu point you can set a fixed difference in volume between the speakers in the main room and those in zone 4. When you adjust the volume, the speakers in zone 4 follow the volume in the main room, but with the difference (offset) you have selected.

FM100 **K8**

MODE

When you first press the MODE button, the screen displays the menu point **'Mode'** of the menu Tone control settings as a "Pop-Up".

You can now cycle through the available menu points Dynamics, Lip Sync, Dolby Volume, PL IIx Mode, Neo:6 Mode and Dolby HP using the ▲ / ▼ buttons.

Picture settings menu
(Video settings)

FM100 VID

K8 SYS / **Picture settings**

This menu is called up via the SYS menu, or the VID button on the FM100.

A brief press on the button calls up the Video Settings menu.

	Adjustment facility				
Processing	Bypass	On			
Brightness	- 40	...	0	...	+ 40
Contrast	- 40	...	0	...	+ 40
Saturation	- 40	...	0	...	+ 40
Hue	- 40	...	0	...	+ 40
Sharpness	0	...	24		
Overscan	0 %	...	6 %		
Resolution	Auto	720p	1080i	1080p	
Framerate	Auto	50 Hz	60 Hz	...	
Aspect	Auto	Original	HM	VM	VP

All settings entered in this menu - apart from screen-saver - are stored for the currently active video source, and managed separately for each source. The picture settings which you select for the active video source are automatically restored every time you switch back to this source.

Processing

This menu point is used to by-pass the video processor. In the by-pass setting the picture signals are passed directly to the TV connected to the system, without any processing.

3-D Pass-Through

3-D picture signals cannot be processed by the **K8**, but can be passed through to the TV set (3-D Pass-Through function). Select the “Bypass” setting if you are using a source device which delivers 3-D pictures.

Select the Bypass setting if you wish the picture signals to be unprocessed. In this case the output signal corresponds pixel-perfect to the input signal. This is the best setting for HDMI source devices whose resolution is an exact match to the resolution of your video monitor.

Achieving best possible picture quality from Blu-ray and DVD discs

To achieve absolutely exact, pixel-perfect picture quality from Blu-ray and DVD content generated by the internal disc player, the K8’s internal HDMI video processor is automatically by-passed when a disc is played. The video settings menu is therefore not available when the disc player is selected as source. The video settings for the disc to be played should be entered using the disc player’s setup menu (see Chapter **'Setup menu (Settings)** / **Display category'**).

Brightness

Please adjust the brightness until black portions of the picture are displayed solid black. This adjustment is best carried out using a suitable test card (e.g. universal test image).

Contrast

Please adjust the contrast until white portions of the picture are displayed pure white. This adjustment is best carried out using a suitable test card (e.g. universal test image).

Saturation

This setting is used to adjust the strength of colour in the picture. Select a setting at which the colour reproduction looks natural. Realistic static pictures or film sequences are best for this.

Hue

This setting is used to alter the colour balance. This adjustment is also best carried out using realistic pictures, e.g. skin tones.

Sharpness

These adjustments affect the apparent sharpness of the image. The subjective perception of the image can often be improved if you adjust the sharpness of the picture material, especially if the picture source is of poor quality.

Overscan

Overscan is a technique which is employed to trim off the margins of the picture by a small percentage, and to compensate for this by increasing the remainder of the image to fill the screen. Since use of the Overscan function forfeits part of the picture content, and also reduces the picture resolution slightly, it should only be used for picture sources which produce blurred picture margins.
Overscan is only available for the analogue picture inputs, as it produces untidy picture margins when used with HDMI.

Resolution

AUTO, 720p, 1080i, 1080p

In this menu point you can adjust the resolution of the video signal generated by the **K8** to match the resolution of your video monitor.

Framerate

Auto, 50, 60

Setting the frame repeat rate of the video signal generated by the **K8**
If you select one of the set-up options 50 Hz or 60 Hz, the K8 generates the output signal at the set rate, regardless of the source material. In the Auto setting the K8 attempts to select the optimum frame rate setting to match the capabilities of the TV set connected to the system, taking into account the source being reproduced.

In Auto mode it takes a few seconds longer to switch between video sources, since the K8 first has to match the signal characteristics of the source with the capabilities of your TV set.

Aspect

AUTO, 1:1 (Original), V-33, H-33, V+33, H+V-33

The term Aspect Ratio refers to the width : height ratio of the reproduced picture. The most common aspect ratios are 4 : 3, which is familiar from the early years of television, and the 16 : 9 wide-screen format introduced into the home arena with the DVD.

The K8 is capable of adjusting the signal from a vast variety of source devices to suit the geometry of your video monitor.

You can also adjust the aspect ratio directly using the ◀▶ button on the FM100 handset. Repeated brief presses of the ◀▶ button are used to cycle through the K8's various corrective factors. Use this method to select the appropriate corrective factor, so that the picture supplied by the source appears on your monitor with as little distortion and wasted screen area as possible.

A more detailed explanation of this setting can be found in the Chapter entitled 'Glossary / Additional information' under the point 'Aspect Ratio – choosing the right corrective factor'.

Alarm Timer

The machine is fitted with an integral Timer module which can switch the **K8** on with a user-selectable source at a programmable time (alarm clock).

Selecting an alarm timer in the alarm timer menu switches on and activates the timer. The active alarm timer is indicated on the screen by the Timer LED, which glows constantly.

You can now switch the **K8** off. As long as the Timer LED is lit, the **K8** will switch itself on at the pre-set time.

Alarm
- with automatic power-off

When the Timer is active, the **K8** switches on at the programmed alarm time. When switched on, the Timer LED flashes.
One hour after the alarm time the **K2** switches itself off again automatically, unless you disabled the alarm function during that period.
If you disable the alarm function with a long press on the ( ) button, the Timer LED ceases flashing. Now the Timer does **not** switch off **automatically** after an hour. If you wish to switch the machine off, you must do so manually.

Switching the Timer off

The alarm timer menu can be called up with a brief press on the ( ) button; you can disable the alarm timer in that menu.

The alarm timer menu can also be called up with a brief press on the ( ) button when the machine is switched off; you can then carry out changes without having to switch on beforehand.

Alarm timer menu

Calling up and operating the menu

- The menu is called up with a brief press on the ( ) button on the front panel.
- When you open the menu, you will hear the currently selected alarm source at the volume which you have set for the alarm function.

  The screen displays the following select points:

	Adjustment facilitiy			
Alarm	Alarm Time 1	Alarm Time 2	Alarm Off	
Alarm Time	00.00			
Alarm Source	Radio BFBS R1	Disc	Tone	
Alarm Vol.	0			
Wakeup-Main-Zone	On	Off		
Wakeup-Zone-2	On	Off		
Wakeup-Zone-3	On	Off		
Wakeup-Zone-4	On	Off		
Time Mode	RDS	Summer time	Winter time	
Set Time	00.00			
Brightn. Clk	Off	1	...	3

- Use the (▲) / (▼) buttons to select a point in the menu.
- If you wish to alter a selected menu point, first press the (OK) button, then use the (◀) / (▶) buttons to change it.
- To adopt the new setting, press the (OK) button again after entering the change.
- To quit **without** accepting a change, you can interrupt the procedure at any time by pressing the (■) button.
- To leave the menu, press the ( ) button on the front panel once more.

Menu point
Select alarm time

In this menu point you can select whether the machine is to be switched on with an alarm, and - if so - with which alarm.

Menu point
Set alarm time

Manual setting of the alarm time for the currently active alarm. Initially the change occurs slowly, but the rate of change increases if you hold the button pressed in.

Menu point
Alarm source

Here you select the source which is to be switched on at the alarm time.
If you select the menu point Radio, you can select the radio station of your choice from the Favourites list using the ▲ / ▼ buttons.

⚠ Alarm by radio:
Take care to set a station which can actually be received.

Alarm by disc:
When you activate the alarm function please ensure that a playable CD is in the disc mechanism.

Menu point
Alarm volume

At this point the alarm volume can be adjusted. If you change the volume, the system immediately adopts the indicated volume value, and the alteration in volume becomes audible.

Menu point
Alarm_Lsp.
(Menu point only appears if more than one zone is present)

Here you select the loudspeaker group to be used for the alarm.

The available options are main room, 2nd zone, 3rd zone and 4th zone (if it is present in the system).

Menu point
Clock mode

In this menu point you can determine how the internal clock is to be set.

RDS: If you select the menu point RDS, you can select a radio station from the Favourites list using the ▲ / ▼ buttons.
If you choose the 'Any' setting, the time of day will be read automatically from the RDS signal provided by the currently set station, and will be adopted by the machine; this occurs at night and about three minutes after switching on.
If a station is selected, the time of day is automatically read out from the RDS signal at night. If the selected station is the current listening source, then the time of day is also taken from the machine when it is switched on.
This only works if a good RDS signal can be received.
It is not possible to adjust the time of day manually!

Summer time: The time of day can be set manually in the menu point 'Set time of day'.

Winter time: The time of day can be set manually in the menu point 'Set time of day'.

Menu point
Set time of day

Manual adjustment of the internal clock to the correct time.

Initially the adjustment occurs slowly, but if you hold the button pressed in, the rate of change increases.

ⓘ Manual adjustment is only possible if you have already selected Summer or Winter in the menu point 'Clock Mode'.

Menu point
Screen brightness (Stdby)

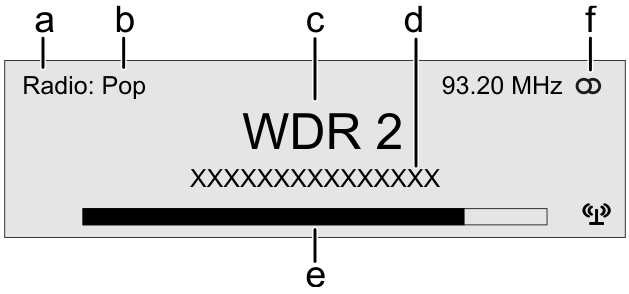
Here you can adjust the brightness of the integral screen in stand-by mode to suit your personal preference; the revised brightness setting takes effect immediately. The 'off' setting can only be selected if no alarm time is active.

Operating the source devices in detail
Operating the Radio

RADIO

First select the radio as source by pressing the RADIO button.

Device display in Radio mode



a) When you are listening to a radio station in radio mode, the message 'Radio' appears in the top line of the screen.
b) Here the music type or style is displayed, e.g. Pop Music.
This information is only displayed if the transmitting station broadcasts it as part of the RDS system. If you are listening to a station which does not support the RDS system, or only supports it in part, these information fields remain empty.
c) The frequency and / or the station name is displayed in enlarged form. If a station name is displayed, its frequency is shown at the end of the line.
d) These lines display information which is broadcast by the station (e.g. Radiotext).
e) The field strength (and therefore the reception quality to be expected from the set transmitting station) can be assessed from the field strength.
f) Display of Stereo 'ꝏ' / Mono '●'

RDS functions

If the station being received is broadcasting relevant RDS data, the following information will be displayed on the screen:

- Station name
- Radiotext
- Program type (genre)

Manual adjustments

Station Search

Holding one of the ◀◀ / ▶▶ buttons pressed in initiates a station search in the upward or downward direction. The station search stops automatically at the next station.

Mono / Stereo

You can toggle the radio of the **K8** between stereo and mono reception by briefly pressing the I/II button. The reception mode is shown on the screen by the following symbols:

'●' (Mono) or 'ꝏ' (Stereo):

If the station you wish to listen to is very weak or very distant, and can only be picked up with severe background noise, you should always switch to MONO mode as this reduces the unwanted hiss significantly.

ⓘ When you store the station in the Favourites list, the settings you enter for this station are also stored, and are automatically restored the next time you call up the station.

Favourites List and Presets

In addition to manual tuning and searching, the radio of the **K8** also features a **Favourites list** and **Presets**, which provide a fast, convenient method of managing your preferred stations and calling them up at any time.

You can edit the Favourites list to suit your preferences (see section **'Adding stations to the Favourites list** / **Erasing stations from the Favourites list'**).

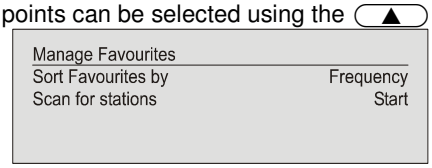
It is also possible to store the stations under a station number (Preset), and then to call it up directly by entering the station number. Presets are particularly useful if you wish to call up stations when the screen is not in sight (e. g. from an adjacent room), or via the domestic control system.

Favourites List

The Favourites list allows the user to store preferred radio stations, i.e. those frequently selected.

Creating the Favourites list

When you have called up the Favourites list by pressing the (≣) button (FM100), you can press the (SRC) button to call up the Favourites menu, from which the following points can be selected using the (▲) / (▼) buttons:



Select the menu point **'Scan for stations'** and initiate the station search with the (OK) button. The screen displays the message **'Auto Store active'**, and the **K8** now automatically stores up to sixty receivable stations in the Favourites list.

Adding stations to the Favourites list

First set the desired station manually (by briefly pressing the (◀◀) / (▶▶) buttons) or using a search (holding the (◀◀) / (▶▶) buttons pressed in). As soon as the station is audible, you can add it to your Favourites list by pressing the (☺) button.

Erasing stations from the Favourites list

Open the Favourites list. Select the station you wish to erase from the list, hold the red (☹) button pressed in for a few seconds: the station is now removed from the Favourites list. After the erasure the tuner automatically switches to the next station in the Favourites list.

Sort function

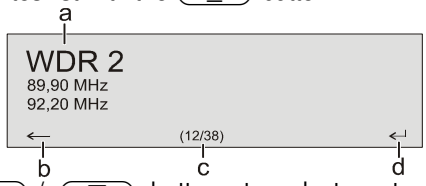
The Favourites list can be sorted according to various criteria; these are selected in the menu point 'Sort Favourites by': (OK) button):

Frequency	Stations are sorted by frequency in ascending order (RDS stations only)
Station name	Stations are sorted alphabetically by station name
Program ID	Stations are sorted by station group (RDS stations only)

Now use the (◀) / (▶) buttons to select the desired sort criterion, and confirm your choice by pressing the (OK) button.

Selecting radio stations from the Favourites list

- Call up the Favourites list with the (≣) button.



a) Use the (▲) / (▼) buttons to select a stored station from the Favourites list. The selected station is displayed in enlarged form.

b) Press the (◀) button to return to the station previously selected.

c) Position display in the Favourites list.

d) Press the (▶) / (I▶) / (▶II) / (OK) button to select the station displayed in enlarged form.

- You can also select stations directly, without calling up the Favourites list as described above, by briefly pressing the (▲) / (▼) buttons in the Favourites list.

Presets

Storing a Preset

- Select a station, either using the (◀◀) / (▶▶) buttons, or from the Favourites list.
- Call up the Store Preset function by pressing the (⊡) button.
- An input window now appears in which you can enter a number using the numeric buttons (0) to (9). The Preset is stored when you press a numeric button. The front panel screen briefly displays the message **'Preset Stored at'** to confirm this.

Calling up a Preset

At any time you can quickly call up a station stored as a Preset by entering its Preset number using the FM100's numeric buttons (0) to (9).

Operating the BluRay disc player (Media Player)
Basic functions

Switching on

Press the (ON) button on the player's front panel to switch the machine on. Select the A/V or HDMI input of your TV set or projector to which the Video or HDMI output of the **K8** is connected.

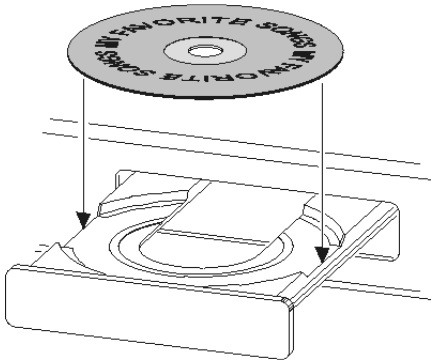
Message:
Your BD player appears not to have a correctly configured Internet connection.
Red button to configure the network connection.

If this message appears, the network is not connected, or is not correctly coded. If you do not wish to use BD-Live functions or other Internet functions, you can ignore this message.

If you would like to configure your Internet connection, - call up the Setup menu and enter the settings in the Network category.

Inserting a disc

Open the disc drawer of the **K8** by pressing the (▲) button on the player's front panel, and lay the disc in the depression in the drawer; the side to be played must face down.



Close the disc drawer by pressing the (▲) button again.

Starting playback

Some BluRay discs and DVDs feature an "Autostart" function; these discs automatically start playing the main film when the disc is placed in the drawer. When other discs are inserted, a Main Menu is displayed which is then used to start playback manually, or to select a scene.

If a CD does not start automatically, it can be started manually by pressing the (▶II) button on the front panel, or the (OK) button on the remote control handset.

Stopping playback

Playback can be stopped at any time by pressing the (▲) button on the machine's front panel, or the (■) button on the remote control handset.

Pause, resume playback

A brief press on the ⏯ button on the front panel (remote control ⏯ button) halts playback (pause function). A further brief press on the ⏯ button (remote control ⏯ button) resumes playback.

Selecting a Chapter or Title

1.) Selecting with the skip buttons

When a disc is playing, it is possible to skip to the next or previous Chapter with a long press on the ▼ / ▲ buttons on the front panel / remote control handset.

If you wish to skip several Chapters, you can hold the button pressed in continuously until you reach the desired point, instead of giving repeated long presses on the Skip button.

The FM100 remote control features additional skip controls in the form of the ⏭ / ⏮ buttons, which skip forward / back by one Chapter when pressed briefly.

When the last Chapter of a Title is reached, the **K8** automatically skips to the first Chapter of the next Title.

2.) Selecting with the Disc menu

Most BluRay / DVD discs feature a Disc menu which provides a convenient method of selecting scenes.

During playback the Disc menu can be called up at any time by pressing the SRC button on the front panel / remote control handset.

Use the Navigation buttons to select the desired scene from the menu, then start playback of the scene by pressing the OK button.

3.) Using the numeric buttons to select a Chapter / Title

It is also possible to skip directly to a Chapter on a DVD or BluRay disc or a Track on a CD by entering the Chapter number or Track number using the numeric buttons (0 . . . 9) on the remote control handset.

If the Chapter or Track number has more than one digit, press the numeric buttons briskly in the correct order.

Search

With playback in progress a search can be started with a long press on the ◀ / ▶ buttons on the front panel, or the ◀◀ / ▶▶ buttons on the remote control. The speed of the search can be increased by holding the button pressed in.

Press the OK button briefly to halt the search.

Sound is muted during the search process.

Repeat functions (REPEAT)

The K8 has multiple repeat modes (REPEAT) for the repetition of chapters / titles, or the whole disc

Briefly pressing the ⮌ button on the remote control handset displays the currently set repeat function on the connected screen. Further button-presses cycle through the other repeat functions.

REPEAT mode	On-screen display
Track / Chapter / Title / File	🔁 Track / File
Disc	🔁 All
Off	

To access Mix mode (shuffle, 🔀) (CD playback only), you must hold the button pressed in. After this, a brief button-press cycles through the various available Mix modes.

Please note that not all the operating modes can be selected for all discs.
Many BluRay discs do not feature any Repeat functions.

Menu functions

General

Many functions of DVD and BluRay players are controlled using on-screen menus. The **K8** uses menus for the configuration process and for the basic device settings (Setup menu). The set-up procedure is described in detail in the chapter entitled 'Setup menu (Settings)'.

DVDs and BluRay discs may also have their own menus with Select facilities for individual **Titles** and / or **Chapters**. Depending on the DVD / BluRay disc, you may also find games, bonus material or alternative camera angles, synchronous speech, sub-titles etc., which can be set up or called up using the Disc menu.

The content, appearance and behaviour of the Disc menu are determined and controlled by the disc itself. If functional problems occur involving the Disc menu, please contact the disc manufacturer or retailer.

Calling up the Disc menu

The **Disc menu** can be called up at any time during playback, allowing you to carry out adjustments as required.

To call up the menu press the SRC button on the front panel / remote control handset briefly. If the DVD / BluRay disc contains a Select menu, this will now appear on the TV screen.

Menu operation

In the Select menus the following buttons are used for menu navigation:

Remote control	Front panel	
SRC	SRC	**Brief press during playback:** Opens Disc menu, BluRay film continues to play **Long press during playback:** Stops films, opens Disc menu
▲	▲	up
▼	▼	down
◀	◀	left
▶	▶	right
OK	OK	**Confirm button** [ENTER]

Navigation within the menu

Use the numeric buttons or the cursor buttons (▲, ▼, ◀, ▶) to select an item within the menu; it will then be highlighted.

Selecting a menu point

Press the OK button to activate or implement a selected menu point.

Leaving the menu

To quit the Select menu, briefly press the SRC button on the front panel / remote control handset.

Special modes of operation

Special functions for BluRay and DVD discs

Slow motion

A long press on the ⏯ button on the front panel or the pause button ⏸ on the remote control during playback switches to slow motion mode. Further long presses on the button reduce the speed step by step (1/4, 1/8 etc.).

To halt slow motion, briefly press the ⏯ button on the front panel (⏸ FM100) or give a long press on the OK button of the F6.

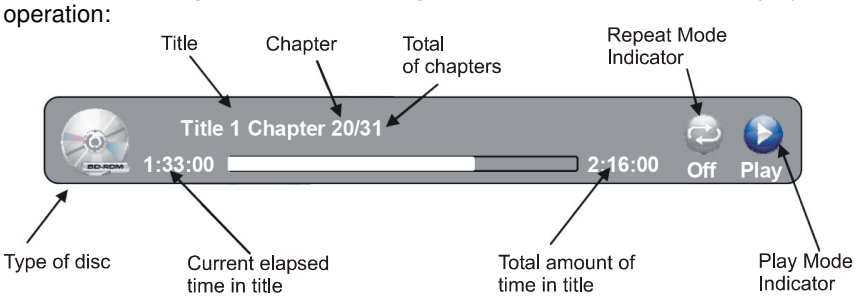
Single frame display

If you wish to display a scene in single-frame mode, first halt playback using the Pause button ⏯ / ⏸. With playback paused, a brief push on the arrow buttons ◀ / ▶ on the front panel or the FM100 causes the film to be displayed in single frame mode.

Single frame playback is halted with a brief press on the ⏯ button on the front panel (⏸ FM100).

Displaying supplementary information
(using FM100 only)

A brief press of the ⓘ button on the FM100 handset superimposes a window containing information relating to the status of the current playback operation:



A further a brief press on the ⓘ button closes the information window.

Director's commentary
(BluRay disc only)

Some BluRay discs contain directors' commentaries or other supplementary information. This material can be called up via the "Picture in Picture" (PIP) function of the **K8**.

To call up the PIP function when a film is running, open Bonus View by briefly pressing the SRC button. If supplementary information is present on the disc, it will now be displayed in a window superimposed on the film.

Press the SRC button again to terminate Bonus View.

Supplementary information is only present on particular BluRay media. DVDs do not provide this function.

Not all BluRay discs contain supplementary information.

BluRay discs which do contain supplementary information do not necessarily offer the material for all scenes.

Sub-titles
(using FM100 only)

Many DVD and BluRay discs allow you to select the sub-title language during playback as well as via the Disc menu.

This is accomplished by calling up the Sub-title menu by briefly pressing the ⓘ button on the FM100 again. Select the desired sub-title language in the menu which now appears.

The menu can be closed by briefly pressing the ⓘ button again. Alternatively you can close the menu by pressing the ◀ button.

Switching the soundtrack
(using FM100 only)

Many DVD and BluRay discs allow you to change the soundtrack during playback as well as via the Disc menu. This is accomplished by calling up the Sound menu by briefly pressing the F1 button on the FM100.

The menu can be closed by briefly pressing the F1 button again. Alternatively you can close the menu by pressing the ◀ button.

Changing the camera angle
(using FM100 only)

A brief press on the 👁 button on the FM100 calls up the Camera Angle menu. If the current scene contains multiple camera angles, these can now be selected from the menu.

The menu can be closed by briefly pressing the 👁 button again.

Alternatively you can close the menu by pressing the ◀ button.

Special functions for CD

Direct track skip
(using FM100 only)

When a CD is playing, the numeric buttons on the remote control can be used to skip directly to any track you like. Simply enter the track number using the numeric keypad.

Playing back digital AUDIO, VIDEO and PHOTO files from CD or USB MEMORY STICK

Introduction

The **K8** supports playback of digital audio, video and photo files from CD and from USB memory sticks. The media files can be generated, processed and burned to CD using a PC, or stored on a USB stick.

The audio, video and photo formats supported by the **K8** can be found in the Specification in the Appendix.

We wish to point out expressly that it is impossible to guarantee general compatibility with such files due to the huge number of different encoding and burning programs, disc burners and media which are available.

If you find that such files cannot be played by the **K8**, we recommend the following measures when creating your CD or USB media:

- Try using a different copy or encoding program
- Try using a different audio, video or photo format
- Try using a different make of blank disc
- Try using a different disc burner

The **K8** provides the following functions for playing back files:

Video Player

- Pause, Stop, fast forward / rewind, repeat
- Skip to the next / previous video file

Audio Player

- Pause, Stop, fast forward, rewind, repeat
- Skip to the next / previous audio file

Photo Viewer

- Preview pictures (“thumbnails”)
- Slide show

Preparing the K8 for music / video / photo playback

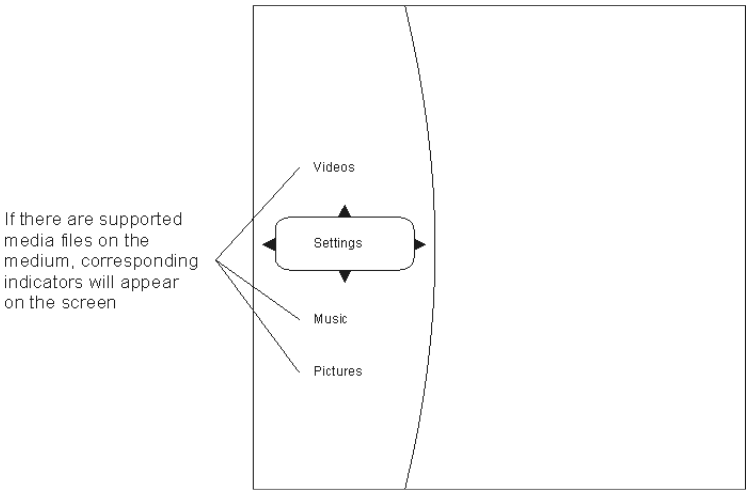
Files which are to be played back using the **K8** should first be burned onto a CD or saved on a USB stick formatted using FAT32.

Place the disc in the drawer, or insert the USB stick in the USB port on the back of the player.

⚠ For safety reasons we recommend that you switch off the **K8** before inserting and removing a USB stick.

In rare cases you may cause damage to the data on the memory stick if you plug it in or remove it when the machine is operating.

When you place the data CD in the drawer, or plug in the USB stick, the left-hand column of the Main menu displays the type of media files found:


If there are supported media files on the medium, corresponding indicators will appear on the screen
Videos
Settings
Music
Pictures

Select from the list which type of file you wish to play.

AUDIO or VIDEO playback

Selecting a source (disc or USB) for playing back audio or video files

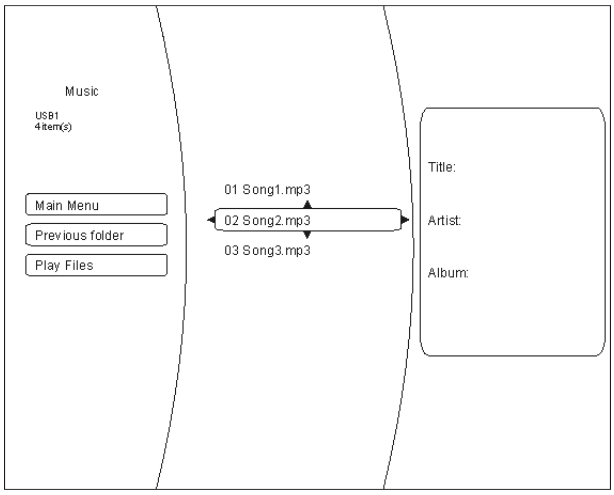
Audio and video files can be played back from a disc or a USB memory stick. When you insert the disc or plug the USB memory stick into the USB socket on the front panel, the left-hand category list in the on-screen menu will include the entries ‘Videos’, ‘Audio’ etc., according to the content of the memory medium.

Select one of these entries, and press OK.

In this way you can find your way to a file which can be played.

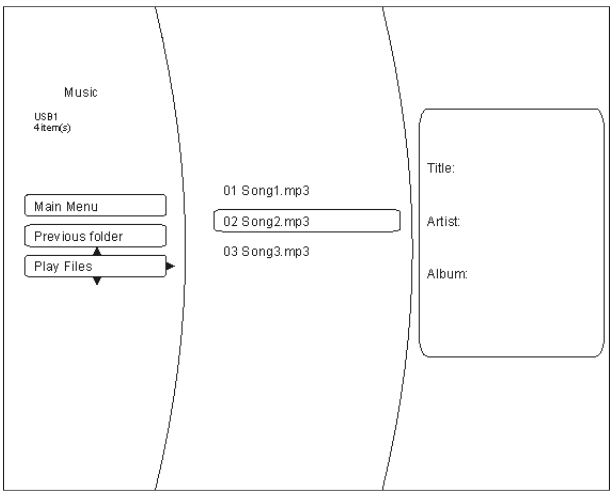
The files which can be played in this mode (e.g. music tracks) are only displayed in the sub-menus if the appropriate playback mode (e.g. Audio) has already been selected.

Example:



Playing back multiple audio or video files

Navigate to the files / folders which you wish to play in the central column of the menu. Use the ◀ button to move to the left-hand column of the menu, and select the 'Play files' menu option using the ▲ / ▼ buttons. Confirm with the OK button, and playback commences.



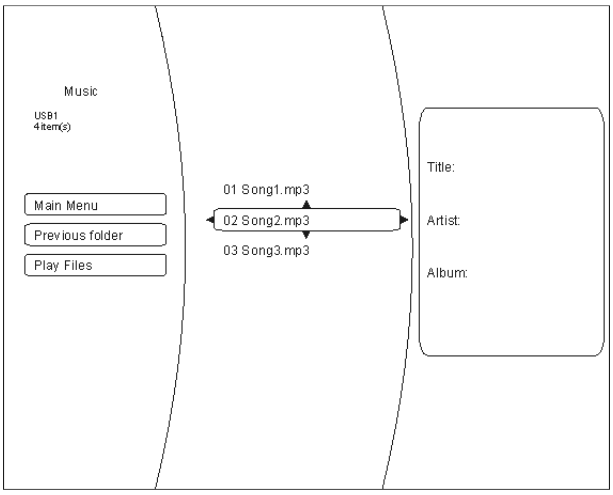
Repeat function
(FM100 only)

As soon as the files are playing, you can select any of the following Repeat functions by repeatedly pressing the ⮌ button on the remote control handset:

- Repeat File — Repeat the current memory piece
- Repeat All — Repeat all the selected files
- Repeat Off — Repeat function off

Playing back individual files

If you wish to play an individual file, use the arrow buttons to navigate through the folders to the desired file, then press the OK button. This action starts playback of the piece.

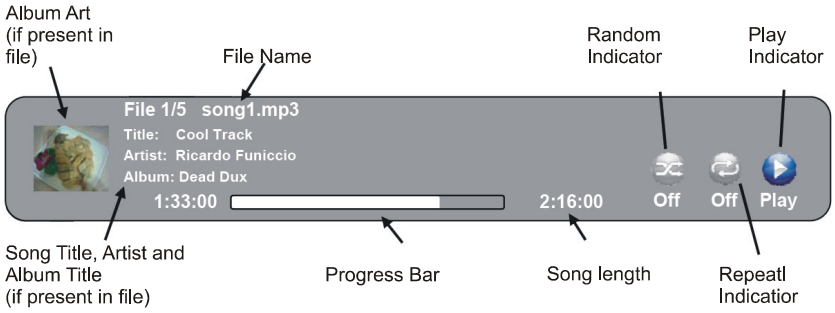


Information display for audio files

When audio files are played back, information relating to the current piece of music is displayed on-screen.

The following information can be displayed - if present in the file being played:

- Filename
- Title
- Artiste
- Album
- Album art (cover artwork)



Displaying photo files (slide show)

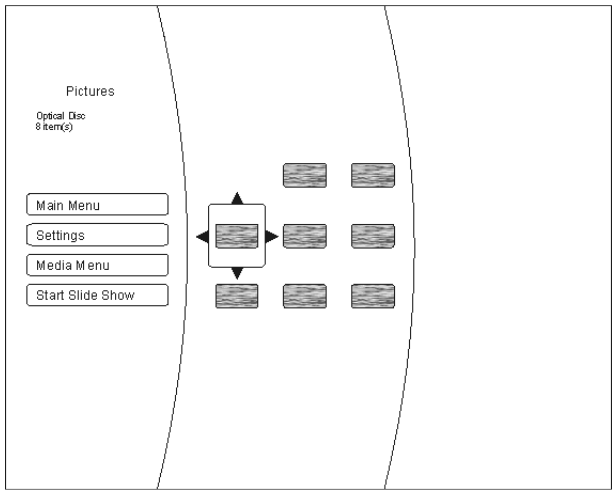
The **K8** can display digital photo files which are burned onto a CD or stored on a USB memory stick.

Selecting a picture data source

In principle the procedure for displaying photos is exactly as described in the previous chapter for playing audio and video material.

Select the “Pictures” option in the left-hand column of the Main menu.

Navigate through the folder structure to the folder which contains the desired photos. The photos in the folder are now displayed as preview pictures (known as “thumbnails”):



You can now use the menu options on the left-hand side of the screen to select the whole folder as a ‘slide show’, or select a single picture to be displayed by selecting with the navigation buttons and confirming your choice with the OK button.

menu point
Settings

Using the ‘Settings’ menu option (in the ‘Pictures’ play mode) you can carry out changes to the picture display:

- Slide show effects
  - Horizontal scroll
  - Fade
  - Shutter
- Slide show delay
  - No delay
  - 1 second
  - 2 seconds
  - 5 seconds
  - 10 seconds
  - 15 seconds
  - 30 seconds

Press the OK button to close the menu.

Using BD-LIVE™ functions

Introduction

Some (but not all) BluRay discs contain supplementary functions. These are known as “BD-Live” functions, and include:

- The facility to load film trailers
- Additional commentaries by actors and directors
- Games
- Chat functions
- Additional bonus material

The following requirements must be fulfilled if you wish to use BD-Live content:

- The **K8** must be connected to the Internet (LAN connection)
- A USB memory stick with adequate free space must be plugged in

Preparing the BD 1260 R for BD-Live use

Connecting BD-Live memory

Using BD-Live requires a USB memory stick with a free capacity of at least 1 GByte.

1. The USB stick must be formatted using the FAT32 file system.
2. If this is not the case, please use a PC to format the stick with the FAT32 file system before use.
3. Plug the memory stick into the front panel USB port of the **K8**.

Preparing the K8 for Internet access

This is the procedure for preparing the **K8** for Internet access:

1. In the Setup menu (Settings) of the **K8** select the “System menu”.
2. In the menu select the point “BD-Live Internet Access”.
3. Ensure that **“Limit Access”** or **“Always Allow Access”** is selected.
4. Insert the prepared USB memory stick.
5. If there is less than 100 MByte of free space on the memory stick, select the option “Clear BD Storage**”. This action erases any data present on the memory stick,** and ensures that there is adequate free memory.
6. Call up the ‘Network’ menu in the Main menu of the **K8**.
7. Enter the correct network settings, i.e. those matching the settings of your home network, your network router and your ISP (Internet Service Provider).
8. Carry out the **‘Connectivity Test’**.

Your system must pass the ‘Connectivity Test’, otherwise there is no Internet connection, and the BD-Live Internet functions cannot be used.

BD-LIVE notes

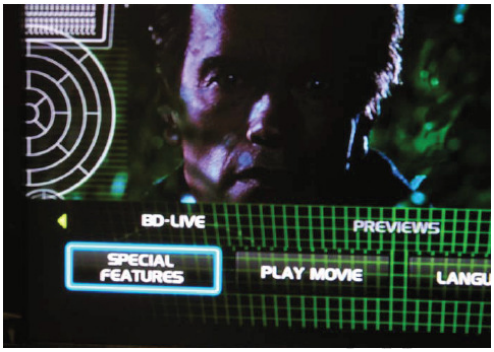
Although downloaded BD-Live content is stored permanently on the USB memory stick, you cannot use the content without the corresponding BD-Live disc in the machine. For this reason, always place the appropriate BluRay disc in the player when you wish to use BD-Live.

Some BD-Live content has a limited usage time, i.e. it lapses after a certain period. Once the permitted usage time is over, you can no longer use the material. From time to time it is therefore necessary to free up the USB stick of data which you no longer use, or which can no longer be used. The unwanted data can be erased using the sub-function “Clear BD storage” in the “System” menu.

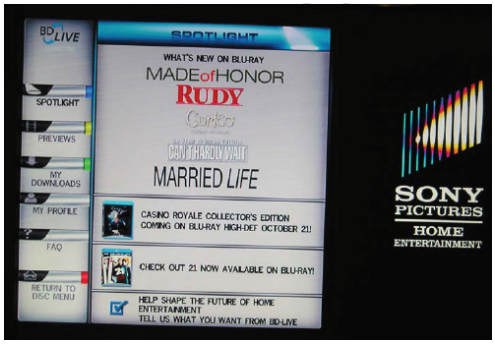
The only option is to erase the whole of the USB memory.

BD-LIVE example: The 6th Day: BD-Live

Select the **BD-Live o**ption from the **"Special Features" menu**

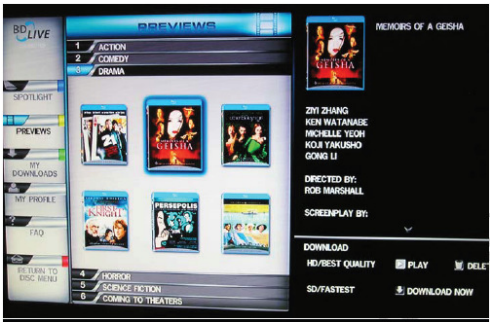


The **BD-Live menu** is now assembled; this may take a few minutes

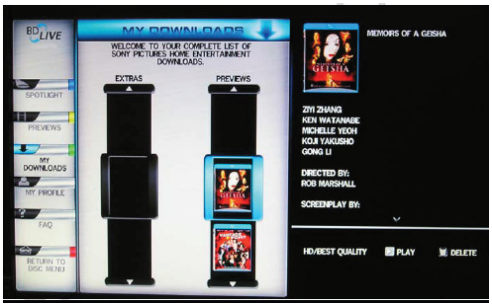


From the **Previews** sub-menu you can now select the content which you wish to download from the Internet.

The downloading process may take a few minutes, depending on the speed of your network.



The downloaded content is saved under **"My Downloads"**.
The downloaded content is now ready for use and playback.



Disc menu and Setup menu (Settings)

General notes on menu operation

Introduction

It is important to differentiate between two different menu functions: the Disc menu and the Setup menu.

- The **Disc menu** is located on the DVD / BluRay disc itself. In this menu you can control special functions pertaining to the individual disc, such as language, sub-title selection, background information on the film, games, etc.

  The content and exact methods of operating this menu vary from disc to disc. Generally speaking it is possible to operate this menu using the navigation buttons listed below, but in any case you should always follow the operating notes which are displayed on the screen.

  The Disc menu is opened with a brief press on the SRC button on the front panel / remote control.

- The **Setup menu** is used for altering settings which apply to the player itself; this menu is described in detail in the following chapters.

  The Setup menu appears on the screen when the disc is stopped.

Menu operation

Within the Select menus the following buttons are used for menu navigation:

Remote control	Front panel	
SRC	SRC	**Brief press:** Opens the Disc menu (see Chapter **'Special DVD / VCD functions / *Menu function'*)**
▲	▲	up
▼	▼	down
◀	◀	left
▶	▶	right
OK	OK	**Confirm button** [ENTER]

Special DVD/BluRay / VCD functions

(menu operation and navigation)

Menu function

A DVD / BluRay disc may contain a Disc menu with Select facilities for individual **Titles** and / or **Chapters**. Depending on the individual DVD / BluRay disc, it may also contain games, bonus material or alternatives for camera angle, synchronised speech, sub-titles etc., all of which can be set up or called up using the Disc menu.

The content, appearance and behaviour of the Disc menu are determined and controlled by the disc itself. If functional problems occur in relation to the Disc menu, please contact the manufacturer or distributor of the disc.

Calling up and operating the Disc menu

The **Disc Menu** can be called up at any time during playback, so that you can make adjustments as required.

- The menu is called up by pressing the SRC button on the front panel / remote control handset.
  If the DVD / BluRay disc contains a Select menu, this will now be displayed on the TV screen. The integral screen shows the message 'INFO'.
- Use the numeric buttons or the cursor buttons (◀, ▶, ▼, ▲) to select your desired point in the menu, i.e. to highlight your choice.
- To activate or implement a selected menu point, press the OK button.
- You can quit the Select menu by briefly pressing the SRC button on the front panel / remote control once more.

Operating the Streaming Client

General Information on the Streaming Client

The **T+A K8** includes what is known as a 'Streaming Client'. This is a new class of playback devices for media content, providing a means of playing music which is stored on a vast variety of sources. These sources may be an iPod or a USB hard disc connected directly to the **K8**, but they may also be thousands of miles away (e.g. Internet radio station). The Streaming Client can access such remote sources via a home network and the Internet.

The Streaming Client must be registered to your network before it can receive music data via your home network and the Internet. To accomplish this you have to enter some data relating to your home network. The process for setting up the network connection is explained later in the chapter entitled **'Network configuration'**.

The **K8** Streaming Client can access the following sources:

Local sources (direct connection)	**Remote sources (via home network or Internet)**
USB memory sticks and USB hard discs	Internet radio
iPod, connected to the USB IN socket 'USB-A2 (iPod)' (plays audio files only)	NAS server (with UPnP-AV server)
	PC (with UPnP-AV server)

The media content formats which the **K8** can reproduce are very wide-ranging, and extend from compressed formats such as MP3, WMA, AAC and OGG Vorbis to high-quality non-compressed data formats such as FLAC and WAV, which are thoroughly audiophile in nature. A full listing of all possible data and playlist formats is included in the Specification, which you will find in the Appendix to these instructions.
Since virtually no read or data errors occur when electronic memory media are accessed, the potential reproduction quality is even higher than that of CD. The quality level may even exceed that of SACD and DVD-Audio.

Audio data can be played back digitally from an iPod connected to the USB A1 / USB-A2 (iPod) socket, i.e. the high-quality D/A converters of the **K8** are used for the digital / analogue conversion of the music signals. This guarantees highest possible reproduction quality of the audio files stored on the iPod.
If you wish to play video files stored on an iPod, please use the analogue AV iPod input (Audio IN / iPod), and control the iPod as described in the Chapter entitled 'Operating the iPod'.

Digital audio output is supported by the following iPod models:

iPod nano (all models)
iPod touch (all models)
iPod 5G
iPod classic (all models)
iPhone (all models)

Earlier models of iPod only generate analogue audio output, and must be connected to the analogue AV iPod input (Audio IN / iPod).

Select Lists

The music content to be played is chosen from Select Lists. These lists are operated using the navigation buttons (cursor buttons) which you will find on the remote control handset and on the front panel. All content can be accessed via the main menu. Internet Radio in particular offers a huge number of stations, which can result in long searches or periods of navigation. We therefore recommend that you store your preferred stations in a **Favourites List**, as this makes them easy and fast to access, with no protracted searching.
The media content can be listed according to various criteria - Internet radio stations e.g. by country of origin, genre or alphabetical, music from media servers e.g. by artiste, album, track, genre, etc.

The exact form of the displayed list and the preparation of the content also depend to a large extent on the capabilities of the server, i.e. the full facilities of the **K8** cannot be exploited with all servers or media. You may therefore find that in many cases not all the functions described in these instructions can be used.

Streaming Client playback functions

Pause playback
▷ / ▷II

The ▷ / ▷II buttons on the remote control handset or the front panel are used to pause and resume playback (PLAY / PAUSE function).

Stopping playback
■

Pressing the ■ button halts playback.

Switch track
⏮ / ⏭
▲ / ▼

A brief press on the ⏮ / ⏭ buttons on the remote control handset or the ▲ / ▼ buttons on the front panel during playback causes a jump to the next or previous piece of music / station within the current folder / playlist.

Search for a passage
◀◀ / ▶▶
◀ / ▶

With playback in progress a search can be started with a long press on the ◀ / ▶ buttons on the front panel, or the ◀◀ / ▶▶ buttons on the remote control. The speed of the search can be increased by holding the button pressed in.

Select Repeat functions
⮌

Repeated **brief presses** cycle through the repeat functions:

→ Rpt Trk (⮌ **1**), → Rpr All (⮌), → Normal

Rpt Trk	The current piece is repeated
Rpt All	All pieces in the current folder / the current playlist are repeated
Normal	Repeat function switched off

Long press: Switches **Mix mode** (Shuffle) ON and OFF

Subsequent brief button presses will cycle through the Mix Repeat operating modes:

→ Mix (⤮), → Rpt Trk (⮌ **1**), → Rpt Mix (⮌ ⤮)

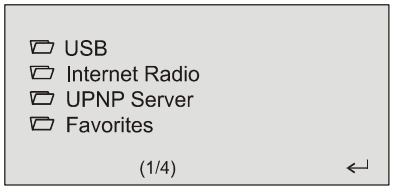
In Mix mode the pieces are played in a random order.

Access to Media Content via the Main Menu (Home Menu)

Main Menu (Home-Menu)

When you call up the Streaming Client by pressing the ( ) / (SCL) button, the front panel screen displays a list of accessible media sources:

- USB / iPod *1)
- Internet Radio
- UPnP-AV Server (Media-Server) in the local network *2)
- Favorites



*1) Only the selected USB input is displayed.
Use the (I/II) button to switch between the USB inputs.

*2) To play back media files that are stored on PC's or NAS storage devices on your home network, a UPnP-AV server software must be installed on these devices to make the media content accessible through the network.

Selecting and Playing Media Content

You can now select a device or a service using the (▲) / (▼) buttons. The selected list point is shown enlarged, and can be called up by pressing the (▶) button.

The content of the device is displayed in the form of a list. The individual list entries are followed either by a folder symbol ( ) or a note symbol ( ).

You can now again move to the individual list points using the (▲) / (▼) buttons, and open them with the (▶) button.

If the list entry you open is a folder, the screen displays the contents of the folder: you can now navigate further within the new folder.

If the entry is followed by a note symbol, this indicates that the content is playable (pieces of music, playlists, radio station etc.). If you open an entry of this type, its content will be played.

The lists and music tracks you can see when you select a device vary according to the machine and the transferred data.

Alpha-Search (Letter Search Function)

When you are navigating through lists you can call up the K8 letter search function at any time by briefly pressing the (▲▼) button. The screen now displays the message 'Search _'. While this is on the screen, enter up to five letters or numerals using the remote control handset; the letters assigned to the numeric buttons are printed below the buttons. To obtain a particular letter, press the appropriate button repeatedly until the correct letter appears on the screen. Before entering the next character you have to wait until the cursor is displayed again. After pressing the (OK) button or after a brief delay with no further input the K8 moves to the first entry in the list which starts with the characters you entered. You can abort the search using the (■)-button.

If the text searched for is not found the best matching result will be shown.

Accessing Media Content using the Favourites List

The Favourites List

The Favourites list can be used to store your preferred Internet radio stations and the paths to your preferred music tracks. At any subsequent time you can then very quickly access these stations and tracks using the **'Favorites'** entry in the Home Menu.

Adding Favourites to the List

If you are currently enjoying a particular Internet radio station, simply press the green ☺ button on the FM100 handset: this adds the station to the Favourites list.

ⓘ In principle you can also add pieces from a NAS server or a USB hard disc to your Favourites list, but we only recommend this if the content of the relevant storage medium is available at all times (e.g. permanently connected USB hard disc).

Calling up Favourites

Open the Favourites list using the ≣ button, then select an entry from the list using the ▲ / ▼ buttons. Start the track or the station by pressing the ▶ / OK button.

Erasing Favourites

Entries are removed from the Favourites list by first selecting the entry to be erased using the ▲ / ▼ buttons, and then holding the red ☹ button on the FM100 handset pressed in for several seconds.

⚠ **Caution!**
Erase the paths to files on USB hard discs or UPnP-AV servers from the Favourites list using the ☹ button before you erase or move files.

Using Presets

Preset function

You can store Internet radio stations as Presets using the process familiar from VHF radio. These stations can subsequently be called up directly using the numeric buttons on the FM100 remote control handset.

Storing a Preset

First select an Internet radio station (e.g. using the Home menu / Internet radio). When you hear the station, press the ⏎ button followed by a number 0 to 9. The station is now stored under this number.
It is possible to store a total of ten Presets under the numbers 0 to 9.

Calling up a Preset

Briefly press one of the numeric buttons 0 to 9. The associated Preset is now called up, and after a brief delay you will hear it.

ⓘ Presets are particularly useful when the front panel screen is not in view, but you wish to call up stations (e.g. when operating the system from an adjacent room, or when operating it via a domestic control system).

Adding Internet Radio Stations

The lists of Internet radio stations displayed by the **K8** are very complete and comprehensive, but since new stations are constantly being added you may find that one of your favourite stations is not (yet) included in the Select lists.
In this case you can add the stations using the vTuner service (see also the Chapter 'vTuner Premium Service'). The station added can then be accessed from the **K8** main menu under the Internet Radio / Added Stations point.

Operating the iPod

Connected to the AV iPod input (Audio IN / iPod)

Once you have used the lead supplied to connect the **K8** to the iPod, you can operate its basic functions using the buttons on the remote control handset or the front panel. While the iPod is in use, its integral screen provides information on the track currently playing, and the iPod's operating status. When an iPod is inserted in the Dock, its battery is automatically recharged.

Selecting the iPod as source

Select the iPod as source by pressing the SCL button on the remote control handset (front panel button) (you may have to press several times).
The iPod is now displayed on-screen as the source device.

The iPod as audio source

Information on the piece of music being played is displayed on the iPod's integral screen. We recommend that you leave the iPod's screen backlight switched on permanently to ensure that it is clearly legible.
The behaviour and method of operating the iPod are determined by the iPod itself. In general terms the function of the buttons of the **K8** or the FM100 remote control handset are as follows:

Start and pause playback

The ▶ / ▶II buttons on the remote control handset or the front panel are used to start and pause playback on the iPod (PLAY / PAUSE function).

Stopping playback

Pressing the ■ button halts iPod playback and unloads the playlist.

Switch track

A brief press on the ⏮ / ⏭ buttons during playback causes the iPod to jump to the next or previous piece of music within the current playlist.

Search for a passage

The ◀◀ / ▶▶ buttons on the remote control handset can be used to search for a passage within the current piece of music (fast forward / rewind)

Select Repeat functions

A brief press on the ⮌ button on the remote control handset leafs through the iPod's various repeat functions in turn:
Icons on the iPod indicate the currently selected mode.

Select Shuffle functions

A brief press on the F1 button on the remote control handset leafs through the iPod's random functions in turn.
Icons on the iPod indicate the currently selected mode.

Menu navigation

◀ Returns to previous point / to the next higher menu level
▶ Confirms input / Selecting a menu point
▲ Selects the previous point within a list
▼ Selects the next point within a list
OK Confirmation button when entering data

The iPod as video source

The fundamental rule is that the **K8** can reproduce the video content stored on some iPod models on a screen connected to the system, as well as music.

The iPod must be connected with the cable from the accessories of the K8 to the analog iPod input. The analog iPod input is selected by a long press of the (SCL)-button on the remote control.

The method of operating the iPod when playing video material varies slightly from model to model, and it is possible that not all video functions will be supported.
If you cannot access all the video functions of your iPod using the remote control handset, or if you only have remote control of the audio functions, then we recommend that you use the iPod's controls to operate the system.
If you connect the iPod to the digital USB socket, it is not possible to play back video content from the iPod, as its output of this material is only in analogue form.

Use with an iPhone

The **K8** can also be used with an iPhone as source device.

Many models generate a warning regarding telephone use, but this is not relevant to the **K8**, and can be ignored.

Special features when operating an iPhone

The first step is to select the iPhone as source with a long press on the (SCL) button ( ); the iPhone must then be unlocked. For safety reasons this cannot be carried out using the remote control handset - please use the slider on the iPhone screen.

The iPod function of the iPhone can be activated by pressing the right-hand cursor button (▶). This causes the main menu of the iPod module to be displayed on the iPhone's integral screen.

In the main menu of the iPod module the playback category (Lists, Interpret, Track, Video, etc.) can be selected using the left-hand cursor button (◀).

Within the lists you can navigate up and down using the (▼) and (▲) buttons.
Press the (▶) button to make a selection; pressing the (◀) button takes you back one menu level.

The **T+A** accessory range includes iPod docks, which represent a convenient method of connecting your iPod to the **K8**. They are available for analogue or digital iPod connection (see www.ta-hifi.com).

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